

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	119	qubit and coupling and frequency and transmission and line and node and energy and state and @ad<"20040223"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 15:22
L3	118	1 and "transmission line"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 14:12
L4	118	1 and "transmission line"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 14:11
L5	119	1 and wavelength	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 14:12
L6	9	1 and coplanar	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 14:15
L7	119	1 and quantum	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 14:19
L8	87	1 and characteristic	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 15:18
L9	81697	quantum and @ad<"20040223"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 15:23
L10	403	9 and qubit	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 15:24

EAST Search History

L11	146	10 and "transmission line"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 15:55
L12	2	"20030086138"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 16:07
L13	2815	(706/46 or 706/45 or 706/14 or 359/108) and @ad<"20040223"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 16:08



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Controlled single-photon emission from a coupled atom-cavity system

Kuhn, A. Hennrich, M. Legero, T. Rempe, G.
Max-Planck-Inst. für Quantenopt., Garching bei München,
This paper appears in: [Quantum Electronics Conference Digest, 2000 International](#)
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Number of Pages: xii+242
ISSN:
INSPEC Accession Number: 6770862
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Abstract

Summary form only given. In quantum information processing, a superposition of atomic or ionic eigenstates, or as a single photon. A coupling between these different types of quantum systems to perform quantum operations or quantum transmissions, e.g., where single atoms or ions are entangled with individual photons, such an entanglement in a controlled way, a triggered source of single photons will be needed. Our scheme will lead to the generation of a single, predetermined mode of the radiation field in a controlled event. This photon is emitted from an atom strongly coupled to an optical cavity, and the trigger is a classical light pulse. The quantum state is transferred to the photon by an adiabatic transfer technique. We consider a single-level atom being placed inside an empty cavity.

Index Terms

Inspec

Controlled Indexing

[optical frequency conversion](#) [optical parametric devices](#) [resonators](#) [optical tuning](#) [quantum electrodynamics](#) [optics](#) [spontaneous emission](#)

Non-controlled Indexing

[adiabatic transfer technique](#) [atomic eigenstates](#) [classical light pulse](#) [controlled single-photon emission](#) [high-finesse optical cavity](#) [ionic eigenstates](#) [photonic information processing](#) [quantum operations](#) [quantum state transfer](#) [qubit](#) [radiation field](#) [single lambda-type three-level system](#) [photons](#) [strongly coupled atom-cavity system](#) [triggered emission](#)

Author Keywords

Not Available

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» Key

IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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